

ID AAC76461 standard; cDNA; 1406 BP.
 XX
 AC AAC76461;
 XX
 DT 08-FEB-2001 (first entry)
 XX
 DE Human ORFX ORF2016 polynucleotide sequence SEQ ID NO:4031.
 XX
 KW Human; open reading frame; ORFX; detection; cytostatic; hepatotropic;
 KW vulnerary; antipsoriatic; antiparkinsonian; nootropic; neuroprotective;
 KW anticonvulsant; osteopathic; antiarthritic; immunosuppressant; cardiant;
 KW immunostimulant; thrombolytic; coagulant; vasotropic; antidiabetic;
 KW hypotensive; dermatological; immunosuppressive; antiinflammatory;
 KW antiviral; antibacterial; antifungal; antirheumatic; antithyroid;
 KW antianaemic; gene therapy; cancer; proliferative disorder; hypertension;
 KW neurodegenerative disorder; osteoarthritis; graft vs host disease;
 KW cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;
 KW cholesterol ester storage; systemic lupus erythematosus; infection;
 KW severe combined immunodeficiency; malaria; autoimmune disorder; asthma;
 KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;
 KW bone damage; cartilage damage; antiinflammatory disease; coagulation;
 KW thrombosis; contraceptive; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200058473-A2.
 XX
 PD 05-OCT-2000.
 XX
 PF 31-MAR-2000; 2000WO-US008621.
 XX
 PR 31-MAR-1999; 99US-0127607P.
 PR 02-APR-1999; 99US-0127636P.
 PR 05-APR-1999; 99US-0127728P.
 PR 30-MAR-2000; 2000US-00540763.
 XX
 PA (CURA-) CURAGEN CORP.
 XX
 PI Shimkets RA, Leach M;
 XX
 DR WPI; 2000-602362/57.
 DR P-PSDB; AAB42252.
 XX
 PT Novel nucleic acids and peptides derived from open reading frame X,
 PT useful for treating e.g. cancers, proliferative disorders,
 PT neurodegenerative disorders and cardiovascular disease.
 XX
 PS Claim 5; Page 3217-3218; 5507pp; English.
 XX
 AC AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43397,
 CC which represent the human ORFX open reading frames 1 to 3161. The ORFX
 CC sequences have activities such as: cytostatic; hepatotropic; vulnerary;
 CC antipsoriatic; antiparkinsonian; nootropic; neuroprotective; osteopathic;
 CC anticonvulsant; antiarthritic; immunosuppressant; immunostimulant;
 CC cardiant; thrombolytic; coagulant; vasotropic; antidiabetic; hypotensive;
 CC dermatological; immunosuppressive; antiinflammatory; antibacterial;
 CC antiviral; antifungal; antirheumatic; antithyroid; and antianaemic. The

sequences can be used for determining the presence of or predisposition to, or preventing or treating pathological conditions associated with an ORFX-associated disorder. The nucleic acids can be used to express ORFX proteins in gene therapy vectors. The proteins and nucleic acids may be used to treat cancers, proliferative disorders, neurodegenerative disorders, osteoarthritis, graft vs host disease, cardiovascular disease, diabetes mellitus, hypertension, hypothyroidism, cholesterol ester storage, systemic lupus erythematosus, severe combined immunodeficiency (SCID), AIDS, viral, bacterial or fungal infection, malaria, autoimmune disorders, asthma, allergies, aplastic anaemia, burns, wounds, bone and cartilage damage, nocturnal haemoglobinuria, antiinflammatory disease; to enhance coagulation; to inhibit thrombosis; and as a contraceptive

SQ Sequence 1406 BP; 521 A; 255 C; 328 G; 301 T; 0 U; 1 Other;

naagctgaga	acgcatottt	agctaaactt	cgcattgaac	gagaaagtgc	cttggaaaaa	60
ctcaggaaag	aaattgcagg	cttcgaacaa	cagaaagcaa	aagaattagc	tcgaatagaa	120
gagtttaaaa	aggaggagat	gaggaaagta	caaaaggaac	gtaaagtgtt	tgaaaagtat	180
actacagctg	caagaacttt	tccagataaa	aagggaacgtg	aagaaataca	gactttaaaa	240
cagcaaatag	cagattttacg	ggaagatttg	aaaagaaaag	agacccaaatg	gtcaagtaca	300
cacagccgtc	tcagaagcca	gatacaaatg	ttagtcagag	agaacacaga	cctccgggaa	360
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gaaaagggtt	ataagaatgg	gtgccgtggt	atactgtttc	ccaatggaac	tcgaaaggaa	780
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atgccagacc	aaagagtgtat	ctactactat	gcagctgccc	agaccactca	cacgacatac	900
ccggaggggac	tggaagtctt	acattttctc	agtggacaaa	tagaaaaaaa	ttaccagat	960
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ccagatggca	ctgttaaaac	cgtatatgca	aacggtcatc	aagaaaacgaa	gtacagatcc	1200
ggtcggataa	gagtttaagga	caaggagggt	aatgtgtctaa	tgacacgga	gctgtgacga	1260
tctcatgtgt	atcataaggt	aacagtaact	gactttttat	gttaaaaaat	gtacattttc	1320
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gtttaccctg	tggcaaaaaa	aaaaaa				1400

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